

Title (en)

CARDED NONWOVEN FIBROUS WEB AND USE IN ABSORBENT ARTICLES

Title (de)

KARDIERTE FASERIGE VLIESTOFFBAHN UND VERWENDUNG IN ABSORBIERENDEN ARTIKELN

Title (fr)

TOILE DE FIBRES NON TISSÉES CARDÉES ET UTILISATION DANS DES ARTICLES ABSORBANTS

Publication

EP 3216433 A1 20170913 (EN)

Application

EP 16159074 A 20160308

Priority

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Abstract (en)

A carded nonwoven fibrous web and method of making is provided. The web comprises at least 50%, by weight of the fibrous web, of staple fibers and at least 10%, by weight of the fibrous web, of non-fibrous latex binder, wherein, the staple fibers are autogenously bonded to each other and are bonded to each other by the latex binder.

IPC 8 full level

A61F 13/51 (2006.01); **D04H 1/54** (2012.01); **D04H 1/58** (2012.01)

CPC (source: EP US)

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Citation (applicant)

- US 5166259 A 19921124 - SCHMEING WALTER A [US], et al
- US 7786341 B2 20100831 - SCHNEIDER MANUELA [DE], et al
- US 5151092 A 19920929 - BUELL KENNETH B [US], et al
- US 3860003 A 19750114 - BUELL KENNETH BARCLAY
- US 5221274 A 19930622 - BUELL KENNETH B [US], et al
- US 5554145 A 19960910 - ROE DONALD C [US], et al
- US 5569234 A 19961029 - BUELL KENNETH B [US], et al
- US 5580411 A 19961203 - NEASE MICHAEL G [US], et al
- US 6004306 A 19991221 - ROBLES MIGUEL ALVARO [US], et al
- US 5599335 A 19970204 - GOLDMAN STEPHEN A [US], et al
- EP 1447066 A1 20040818 - PROCTER & GAMBLE [US]
- WO 9511652 A1 19950504 - KIMBERLY CLARK CO [US]
- US 2008312622 A1 20081218 - HUNDORF HARALD HERMANN [DE], et al
- WO 2012052172 A1 20120426 - VYNKA BVBA [BE], et al
- US 7744576 B2 20100629 - BUSAM LUDWIG [DE], et al
- US 2011268932 A1 20111103 - CATALAN KEMAL VATANSEVER [US], et al
- US 2011319848 A1 20111229 - MCKIERNAN ROBIN LYNN [US], et al
- US 2011250413 A1 20111013 - LU JON AARON [US], et al
- SCHWARTZ; BERRY: "Surface Active Agents", 1958, INTERSCIENCE PUBLISHERS, INC.
- MOILET; COLLIE; BLACK, D.: "Surface Activity", 1961, VAN NOSTRAND COMPANY, INC.
- FEISER; FEISER, D.C.: "Organic Chemistry", 1944, HEATH AND COMPANY
- "The Merck Index", 1960, MERCK & CO., INC., RAHWAY, N.J.
- J.D. LINDSAY: "The anisotropic Permeability of Paper", TAPPI JOURNAL, May 1990 (1990-05-01), pages 223

Citation (search report)

- [XII] WO 02076630 A1 20021003 - FIRST QUALITY NONWOVENS INC [US]
- [XII] US 2005033252 A1 20050210 - SCHNEIDER MANUELA [DE], et al
- [XII] EP 0963472 A1 19991215 - KIMBERLY CLARK CO [US]
- [XII] WO 0078883 A1 20001228 - 3M INNOVATIVE PROPERTIES CO [US], et al

Cited by

EP3466389A1; CN107714306A; EP3466388A1; CN111225644A; US11957555B2; US11441251B2; WO2019070549A1; US10590577B2; WO2023049736A1; WO2023049738A1

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